



CLAIM LISTING

- 1 1. (Original): A server system, comprising:
2 one or more computers; and
3 an application executing on the computers to handle client requests, the
4 application comprising:
5 a business logic layer to process the client requests according to a particular
6 business domain and produce replies to be returned to the clients in response to the
7 client requests; and
8 a presentation layer separate from, but in communication with, the business
9 logic layer to structure the replies in a manner that makes the replies presentable
10 on different types of client devices.

- 13 2. (Original): A server system as recited in claim 1, wherein the
14 application is reconfigurable to other business domains by substituting other
15 business logic layers that are designed to process the client requests according to
16 the other business domains.

- 18 3. (Original): A server system as recited in claim 1, wherein the
19 presentation layer is configured to determine a layout of content in the replies.

- 21 4. (Original): A server system as recited in claim 1, wherein the
22 presentation layer is configured to determine display attributes in the replies.

1 5. (Original): A server system as recited in claim 1, wherein the
2 different types of client devices support different data formats, the presentation
3 layer being configured to select appropriate data formats for encoding the replies.

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5 6. (Original): A server system as recited in claim 1, wherein the
6 different types of client devices support different communication protocols, the
7 presentation layer being configured to select appropriate communication protocols
8 for delivering the replies to the clients.

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10 7. (Original): A server system as recited in claim 1, wherein the
11 presentation layer is configured to determine how to display the replies for a
12 particular client.

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14 8. (Original): A server system as recited in claim 1, wherein the
15 presentation layer comprises:

16 a presentation tier to determine how the replies will appear on the client
17 devices to users; and

18 a rendering tier, separate from the presentation tier, to determine how to
19 render the replies on the client devices.

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21 9. (Original): A server system as recited in claim 1, wherein the
22 presentation layer comprises:

23 a tag library containing pre-constructed tags for a variety of data formats;
24 and

1 a request dispatcher to structure a reply for service back to a client device,
2 the request dispatcher being configured to access the tag library to obtain tags to
3 structure the reply according to a particular data format.

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5 **10.** (Original): A server system as recited in claim 9, wherein the
6 request dispatcher is configured to select a communication protocol to be used to
7 serve the reply back to the client device.

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9 **11.** (Original): A server system as recited in claim 9, wherein the
10 presentation layer further comprises a content renderer to conform the reply
11 structured by the request dispatcher to output capabilities of the client device to
12 which the reply will be returned.

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14 **12.** (Original): In a server application that receives client requests for a
15 problem domain and has at least one problem solving module to generate replies
16 to be served back to clients, a presentation module separate from the problem
17 solving module, comprising:

18 a presentation component to construct how a reply will appear; and
19 a rendering component to configure how the reply is output on a particular
20 client.

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22 **13.** (Original): A presentation module as recited in claim 12, wherein
23 the presentation component is configured to determine a layout of content to be
24 included in the reply.

1 **14.** (Original): A presentation module as recited in claim 12, wherein
2 the presentation component is configured to determine display attributes for the
3 reply.

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5 **15.** (Original): A presentation module as recited in claim 12, wherein
6 the clients support different data formats, the presentation component being
7 configured to select an appropriate data format for encoding the reply for the
8 particular client.

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10 **16.** (Original): A presentation module as recited in claim 12, wherein
11 the clients support different communication protocols, the presentation component
12 being configured to select an appropriate communication protocol for delivering
13 the reply to the particular client.

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15 **17.** (Original): A presentation module as recited in claim 12, wherein
16 the rendering component is configured to conform the reply to a specific display at
17 the particular client.

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19 **18.** (Previously presented): A computer software architecture embodied
20 on one or more computer-readable media, comprising:

21 a presentation tier to determine how data for communication to a client
22 device is to be presented on the client device; and

23 a rendering tier, separate from the presentation tier, to determine how to
24 render the data on the client device.

1 19. (Original): A computer software architecture as recited in claim 18,
2 wherein the presentation tier is configured to determine at least one of (1) a layout
3 of the data, (2) a color scheme in which to present the data, (3) a presentation
4 theme, and (4) a particular skin appearance.

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6 20. (Original): A computer software architecture as recited in claim 18,
7 wherein the presentation tier is configured to select a data encoding format for
8 encoding the data and a communications protocol in which to send the data to the
9 client device.

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11 21. (Original): A computer software architecture as recited in claim 18,
12 wherein the presentation tier comprises multiple dispatchers, each dispatcher being
13 configured to encode the data according to a particular encoding format.

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15 22. (Original): A computer software architecture as recited in claim 18,
16 wherein the presentation tier comprises multiple dispatchers, each dispatcher being
17 configured to package the data according to a particular communications protocol.

18
19 23. (Original): A computer software architecture as recited in claim 18,
20 wherein the presentation tier comprises:

21 a tag library containing pre-constructed tags for a variety of data formats;
22 and

23 a request dispatcher to structure the data using the tags from the tag library,
24 the tags being selected to structure the data in a manner that is supported by the
25 client device.

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2 **24.** (Original): An architecture comprising:

3 a tag library containing pre-constructed tags for a variety of data formats;

4 multiple request dispatchers to structure replies to be returned to client
5 devices in response to requests submitted by the client devices, individual request
6 dispatcher formatting data according to particular formats that are supported by
7 the client devices; and

8 content renderer to conform the replies to output capabilities of the client
9 devices to which the replies are to be returned.

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11 **25.** (Original): An architecture as recited in claim 24, wherein
12 individual request dispatchers are further configured to select communication
13 protocols to be used to serve the replies back to the client devices.

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15 **26.** (Original): An architecture as recited in claim 24, wherein the
16 content renderer is configured to conform the replies to specific display types at
17 the client devices.

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19 **27.** (Previously presented): A method comprising:

20 receiving a reply generated by a server application in response to a client
21 request;

22 structuring the reply to define how the reply will appear when
23 communicated to and presented at the client; and

24 independent of said structuring, conforming the reply to output capabilities
25 of the client.

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2 **28.** (Original): A method as recited in claim 27, wherein the structuring
3 comprises selecting an encoding format in which to encode the reply.

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5 **29.** (Original): A method as recited in claim 27, wherein the structuring
6 comprises selecting a communication protocol for sending the reply to the client.

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8 **30.** (Original): A method as recited in claim 27, wherein the structuring
9 comprises selecting at least one of (1) a layout of content in the reply, (2) a color
10 scheme of the reply, (3) a skin theme, and (4) a logo to brand the reply.

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12 **31.** (Original): A method as recited in claim 27, further comprising:
13 storing pre-constructed tags that can be used to construct the reply in
14 different formats; and
15 selecting at least one of the tags when structuring the reply.

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17 **32.** (Original): A method as recited in claim 27, wherein the
18 configuring comprises sizing the reply for a display at the client.

19
20 **33.** (Previously presented): One or more computer-readable media
21 comprising computer-executable instructions that, when executed, direct an
22 application server to:

23 generate replies in response to client requests, the client requests being
24 submitted by diverse client devices that support different data formats and
25 different communication protocols; and

1 structure the replies to define how the replies will appear when
2 communicated to and presented on the client devices and independently form
3 individual replies for output capabilities of the client devices so that the replies are
4 encoded to comply with the data formats supported by the client devices and are
5 sent using the communication protocols of the client devices.

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7 **34.** (Original): One or more computer-readable media as recited in
8 claim 33, further comprising computer-executable instructions that, when
9 executed, direct an application server to use pre-constructed tags to structure the
10 replies.

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